

California Arbovirus Surveillance Bulletin # 9

Week 24 Friday, June 18, 2004

Weekly Summary

California Weekly Summary Comments:

Humans:

Today, California reported five new probable human cases of West Nile virus from San Bernardino County. The five individuals are a 64-year-old female, 19-year-old male, 17-year-old male, and two 12-year-old males. In May, they experienced fever, muscle aches, headache, and a rash. None were hospitalized.

Dead Birds:

The hotline received 1,775 reported dead birds last week (YTD = 11,442). UC Davis Center for Vectorborne Diseases (CVEC) reported 111 dead American crows have tested positive for WNV via RT-PCR from San Bernardino (59), Los Angeles (43), and Riverside (9). A total of 143 bird carcasses were tested from these three counties accounting for 77.6% positive results (111/143). Twenty-three bird carcasses from 15 other counties tested negative.

News Flash:

CVEC reported 97 dead American crows have tested positive for WNV via RT-PCR from San Bernardino (40), Los Angeles (40), and Riverside (17) on June 17. A total of 128 bird carcasses were tested from these three counties accounting for 75.8% positive results (97/128). Seventeen bird carcasses from nine other counties tested negative. The complete list will be published in next week's bulletin. These new positives bring the 2004 totals to 492; San Bernardino County (220), Los Angeles County (207), Riverside County (61), Orange County (3), and Ventura County (1).

Mosquito Pools:

CVEC reported 22 WNV-positive mosquito pools from Riverside (9), Los Angeles (7), Imperial (3) and San Bernardino (3) counties. This was the first WNV activity detected in Imperial County in 2004. Presently, the YTD positive pools stand at 59; Riverside County (24), Los Angeles County (21), San Bernardino County (11), and Imperial County (3).

Chickens:

The Viral and Rickettsial Disease Laboratory (VRDL) reported one seroconversion from a previously positive flock from Riverside County.

Website Information:

For updated information on WNV, please visit the California WNV website, www.westnile.ca.gov; the CDC website, www.cdc.gov; and the USGS website, www.westnilemaps.usgs.gov. Please go to the Vector website at <http://vector.ucdavis.edu/arbo.html> for flock location and more information on WNV and other vector-borne diseases.

Human Positives Reported: POSITIVES

Virus	Date of Onset	Status	Diagnosis	County	Imported/Local	From
WNV	* 19-May-04	Confirmed	WN Fever	San Bernardino	Local	
WNV	14-May-04	Probable	WN Fever	San Bernardino	Local	
WNV	16-May-04	Probable	WN Fever	San Bernardino	Local	
WNV	22-May-04	Probable	WN Fever	San Bernardino	Local	
WNV	22-May-04	Probable	WN Fever	San Bernardino	Local	
WNV	7-June-04	Probable	WN Fever	San Bernardino	Local	

* Reported in Bulletin #8

Chicken Seroconversions Reported by DHS:

Virus	County	State	Acode	City	Location
WNV	RIVERSIDE	CA	COAV0114	North Shore	Desert
Band: 1385					Probable Seroconversion Date 1-Jun-04

***Indicates a new flock

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Virus Isolations From Mosquito Pools:

Virus	Mosquito species	Date Collected	ACODE	Pool #	City	County	Date Received
WNV	Culex tarsalis	7-Jun	COAV	528	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	7-Jun	COAV	544	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	2-Jun	COAV	500	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	3-Jun	COAV	503	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	3-Jun	COAV	506	Mecca	Riverside	10-Jun
WMV	Culex tarsalis	3-Jun	COAV	507	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	7-Jun	COAV	530	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	7-Jun	COAV	531	Mecca	Riverside	10-Jun
WNV	Culex tarsalis	7-Jun	COAV	534	Mecca	Riverside	10-Jun
WNV	Culex quinquefasciatus	3-Jun	GRLA	1325	Los Angeles	Los Angeles	10-Jun
WNV	Culex quinquefasciatus	3-Jun	GRLA	1326	Los Angeles	Los Angeles	10-Jun
WNV	Culex quinquefasciatus	3-Jun	GRLA	1328	Los Angeles	Los Angeles	10-Jun
WNV	Culex quinquefasciatus	2-Jun	GRLA	1289	Glendale	Los Angeles	10-Jun
WNV	Culex tarsalis	2-Jun	GRLA	456	Whittier Narrows	Los Angeles	10-Jun
WNV	Culex tarsalis	2-Jun	GRLA	457	Whittier Narrows	Los Angeles	10-Jun
WNV	Culex tarsalis	2-Jun	GRLA	459	Whittier Narrows	Los Angeles	10-Jun
WNV	Culex tarsalis	1-Jun	IMPR	483	Wister	Imperial	10-Jun
WNV	Culex tarsalis	1-Jun	IMPR	484	Wister	Imperial	10-Jun
WNV	Culex tarsalis	1-Jun	IMPR	496	Brawley	Imperial	10-Jun
WNV	Culex quinquefasciatus	7-Jun	WVAL	48	Ontario	San Bernardino	10-Jun
WNV	Culex quinquefasciatus	3-Jun	WVAL	52	Chino	San Bernardino	10-Jun
WNV	Culex quinquefasciatus	7-Jun	WVAL	43	Ontario	San Bernardino	10-Jun

Dead Birds Tested Positive for WNV last week

Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Los Angeles	Whittier	90605	5/18/2004	6/2/2004
American Crow	San Bernardino	San Bernardino	92411	5/19/2004	6/2/2004
American Crow	Los Angeles	La Mirada	90638	5/25/2004	6/7/2004
American Crow	San Bernardino	Montclair	91763	5/25/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92407	5/25/2004	6/7/2004
American Crow	San Bernardino	Chino	91710	5/26/2004	6/7/2004
American Crow	Los Angeles	Whittier	90606	5/25/2004	6/7/2004
American Crow	Los Angeles	Covina	91722	5/25/2004	6/7/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/25/2004	6/7/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/26/2004	6/7/2004
American Crow	Los Angeles	Duarte	91010	5/26/2004	6/7/2004
American Crow	San Bernardino	Rialto	92377	5/26/2004	6/7/2004
American Crow	San Bernardino	Fontana	92335	5/26/2004	6/7/2004
American Crow	Los Angeles	Covina	91723	5/26/2004	6/7/2004
American Crow	Riverside	Rubidoux	92509	5/26/2004	6/7/2004
American Crow	San Bernardino	Ontario	91762	5/26/2004	6/7/2004
American Crow	Riverside	Riverside	92505	5/26/2004	6/7/2004
American Crow	Los Angeles	Whittier	90602	5/26/2004	6/7/2004
American Crow	San Bernardino	Chino	91710	5/27/2004	6/7/2004
American Crow	Los Angeles	Whittier	90603	5/26/2004	6/7/2004
American Crow	Los Angeles	Pico Rivera	90660	5/26/2004	6/7/2004

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Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Los Angeles	Whittier	90606	5/26/2004	6/7/2004
American Crow	San Bernardino	Colton	92324	5/26/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92408	5/26/2004	6/7/2004
American Crow	Los Angeles	La Mirada	90638	5/26/2004	6/7/2004
American Crow	Los Angeles	La Mirada	90638	5/26/2004	6/7/2004
American Crow	San Bernardino	Ontario	91764	5/26/2004	6/7/2004
American Crow	San Bernardino	Loma Linda	92354	5/26/2004	6/7/2004
American Crow	San Bernardino	Fontana	92336	5/22/2004	6/7/2004
American Crow	San Bernardino	Fontana	92336	5/22/2004	6/7/2004
American Crow	San Bernardino	Fontana	92336	5/22/2004	6/7/2004
American Crow	Los Angeles	Hacienda Heights	91745	5/26/2004	6/7/2004
American Crow	San Bernardino	Montclair	91763	5/26/2004	6/7/2004
American Crow	San Bernardino	Chino	91710	5/26/2004	6/7/2004
American Crow	San Bernardino	Montclair	91763	5/26/2004	6/7/2004
American Crow	Los Angeles	Whittier	90605	5/26/2004	6/7/2004
American Crow	San Bernardino	Rialto	92377	5/27/2004	6/7/2004
American Crow	San Bernardino	Loma Linda	92354	5/27/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92401	5/27/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/27/2004	6/7/2004
American Crow	San Bernardino	Fontana	92335	5/27/2004	6/7/2004
American Crow	San Bernardino	Fontana	92335	5/27/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92405	5/27/2004	6/7/2004
American Crow	San Bernardino	Colton	92324	5/27/2004	6/7/2004
American Crow	San Bernardino	Loma Linda	92354	5/27/2004	6/7/2004
American Crow	San Bernardino	Mentone	92359	5/27/2004	6/7/2004
American Crow	Los Angeles	Covina	91724	5/27/2004	6/7/2004
American Crow	Los Angeles	Covina	91722	5/27/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92404	5/27/2004	6/7/2004
American Crow	Riverside	Riverside	92505	5/27/2004	6/7/2004
American Crow	San Bernardino	Bloomington	92316	5/27/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/27/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/26/2004	6/7/2004
American Crow	Los Angeles	Hacienda Heights	91745	5/27/2004	6/7/2004
American Crow	Los Angeles	Whittier	90605	5/27/2004	6/7/2004
American Crow	Los Angeles	Santa Fe Springs	90670	5/27/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/26/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/26/2004	6/7/2004
American Crow	Riverside	Perris	92570	5/27/2004	6/7/2004
American Crow	San Bernardino	Ontario	91762	5/27/2004	6/7/2004
American Crow	Riverside	Riverside	92507	5/28/2004	6/7/2004
American Crow	San Bernardino	Colton	92324	5/28/2004	6/7/2004
American Crow	San Bernardino	Colton	92324	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92407	5/28/2004	6/7/2004
American Crow	Riverside	Norco	92860	5/28/2004	6/7/2004
American Crow	Los Angeles	Azusa	91702	5/28/2004	6/7/2004
American Crow	Los Angeles	Downey	90240	5/28/2004	6/7/2004
American Crow	Los Angeles	Cerritos	90703	5/28/2004	6/7/2004
American Crow	Los Angeles	Downey	90241	5/28/2004	6/7/2004
American Crow	Los Angeles	Cerritos	90703	5/28/2004	6/7/2004

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Species	County	City	Zip Code	Date Collected	Date Tested
American Crow	Los Angeles	Cerritos	90703	5/28/2004	6/7/2004
American Crow	Los Angeles	Cerritos	90703	5/28/2004	6/7/2004
American Crow	San Bernardino	Fontana	92335	5/27/2004	6/7/2004
American Crow	Los Angeles	South Pasadena	91030	5/28/2004	6/7/2004
American Crow	Los Angeles	South El Monte	91733	5/28/2004	6/7/2004
American Crow	Los Angeles	Pico Rivera	90660	5/28/2004	6/7/2004
American Crow	San Bernardino	Ontario	91764	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92410	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92410	5/28/2004	6/7/2004
American Crow	San Bernardino	Loma Linda	92374	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92407	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92404	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92415	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92410	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92404	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92410	5/28/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92410	5/28/2004	6/7/2004
American Crow	Los Angeles	North Hills	91343	5/27/2004	6/7/2004
American Crow	San Bernardino	Chino	91710	5/28/2004	6/7/2004
American Crow	San Bernardino	Chino	91762	5/27/2004	6/7/2004
American Crow	Los Angeles	Whittier	90601	5/28/2004	6/7/2004
American Crow	San Bernardino	Rialto	92376	5/28/2004	6/7/2004
American Crow	San Bernardino	Bloomington	92316	5/28/2004	6/7/2004
American Crow	San Bernardino	Highland	92346	5/27/2004	6/7/2004
American Crow	Los Angeles	La Mirada	90638	5/28/2004	6/7/2004
American Crow	San Bernardino	Grand Terrace	92313	6/1/2004	6/7/2004
American Crow	San Bernardino	Bloomington	92316	6/1/2004	6/7/2004
American Crow	Los Angeles	La Mirada	90638	6/1/2004	6/7/2004
American Crow	San Bernardino	Redlands	92374	6/1/2004	6/7/2004
American Crow	Los Angeles	Glendora	91741	6/1/2004	6/7/2004
American Crow	Riverside	Riverside	92504	6/1/2004	6/7/2004
American Crow	Riverside	Riverside	92503	6/1/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92404	6/1/2004	6/7/2004
American Crow	Los Angeles	Cerritos	90703	6/1/2004	6/7/2004
American Crow	San Bernardino	Redlands	92373	6/1/2004	6/7/2004
American Crow	Los Angeles	Altadena	91001	6/2/2004	6/7/2004
American Crow	San Bernardino	Loma Linda	92354	6/2/2004	6/7/2004
American Crow	San Bernardino	Redlands	92373	6/2/2004	6/7/2004
American Crow	Riverside	Riverside	92503	6/2/2004	6/7/2004
American Crow	San Bernardino	Redlands	92373	6/1/2004	6/7/2004
American Crow	San Bernardino	San Bernardino	92404	6/2/2004	6/7/2004

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TESTING SUMMARIES

Humans and Equines

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Individuals Tested	Week	23	0	5	0	0	0	0	0	0
	YTD	279	0	6	0	0	0	0	0	0
Suspect Equine Cases	Week	0	0	0	0	0	0	0	0	0
	YTD	115	0	0	0	0	0	0	0	0

Dead Birds

	Number Tested	WNV Positive
Week	166	111
YTD	1022	395

Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
	YTD	9643*	7	0	0	0
Mosquito pools	Week	287	22	0	0	0
	YTD	2891	59	0	0	0

*This total has been adjusted to include local agency submissions.

National Comments:

According to the Centers for Disease Control and Prevention, as of June 15, 2004, West Nile virus (WNV) activity has been detected in 24 states, with Virginia, Wisconsin, and Wyoming reporting their first activity this week. New Mexico announced the first human case of the year on Wednesday, May 26, 2004. Since then, South Dakota and Wyoming have each reported one human case, and Arizona has reported 10 human cases. California announced its first confirmed human case on June 8, 2004. Today, California reported five additional probable human cases.

Dead Birds:

Dead bird kidney tissues are tested at CVEC using the PCR Taqman assay, subsequent to carcass necropsy at the California Animal Health and Food Safety (CAHFS) Laboratories. Organ pools from PCR positive carcasses are tested using cell culture for virus isolation. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6251.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) are tested for the presence of antibodies to West Nile virus (WNV), western equine encephalomyelitis (WEE), and St. Louis encephalitis (SLE) viruses by EIA and IFA. The VRDL performs additional testing (including Plaque Reduction Neutralization (PRNT) and IgM Capture – Enzyme Linked Immunosorbent Assay (MAC-ELISA)) on specimens from sentinel chickens in which antibodies are detected in new geographic areas. The VRDL also forwards selected serum to the UC Davis Center for Vectorborne Diseases (CVEC) for additional testing for WNV, WEE, and SLE antibodies as needed.

Mosquito Pools:

All mosquito pools are screened for WEE, SLE, and WNV viral RNA using a Taqman multiplex RT-PCR. All species except *Culex tarsalis* are also tested for California Encephalitis via EIA. All positive pools are confirmed by both singleplex RT-PCR as well as *in situ* EIA.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch) and the Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Al Hom by phone (510) 412-6254, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].